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1 [Document searching, document annotation, and document metadata: Prefiltering](#)



[techniques for efficient XML document processing](#)

Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering****DocEng '05****Publisher:** ACM PressFull text available: [pdf\(442.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document Object Model (DOM) and Simple API for XML (SAX) are the two major programming models for XML document processing. Each, however, has its own efficiency limitation. DOM assumes an in-core representation of XML documents which can be problematic for large documents. SAX needs to scan over the document in a linear manner in order to locate the interesting fragments. Previously, we have used tree-to-table mapping and indexing techniques to help answer structural queries to large, or large c ...

Keywords: DOM, SAX, prefiltering, structural query, two-phased XML processing model

2 [DB-IR-2 \(databases and information retrieval\): web and XML text search: Processing](#)



[content-oriented XPath queries](#)

Börkur Sigurbjörnsson, Jaap Kamps, Maarten de Rijke

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04****Publisher:** ACM PressFull text available: [pdf\(237.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document-centric XML collections contain text-rich documents, marked up with XML tags that add lightweight semantics to the text. Querying such collections calls for a hybrid query language: the text-rich nature of the documents suggests a content-oriented (IR) approach, while the mark-up allows users to add structural constraints to their IR queries. Hybrid queries tend to be more expressive, which should lead---in principle---to better retrieval performance. In practice, the processing of t ...

Keywords: XML retrieval, XPath, content and structure

3

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